Appendix A

Analytical Results

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Charlene Morrow, M.S.
Yelena Aravkina, M.S.
Bradley T. Benson, B.S.
Kurt Johnson, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
TEL: (206) 285-8282
FAX: (206) 283-5044
e-mail: fbi@isomedia.com

January 23, 2008

Conrad Vernon, Project Manager
Vernon Environmental, Inc.
3524 255th Ln SE #3
Issaquah, WA 98027

Dear Mr. Vernon:

Included are the results from the testing of material submitted on January 9, 2008 from the Rainier Commons Sediment in Catchbasins, F&BI 801076 project. There are 4 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl
Project Manager

Enclosures
NAA0123R.DOC

801076 conrad.vernon@amec.com

SAMPLE CHAIN OF CUSTODY ME 01/09/08

A03

Send Report To Conrad Vernon
VET Company Vernon Environmental, Inc
Address 3524-255th Ln SE, #3
City, State, ZIP Issaquah, WA 98027
Phone # 206.686.2469 Fax #

SAMPLERS (signature)

PROJECT NAME/NO. Rainier Commons Sediment in Catchbasins

PO #

REMARKS

Page # ____ of ____

TURNAROUND TIME
☐ Standard (2 Weeks)
☐ RUSH
Rush charges authorized by:

SAMPLE DISPOSAL
☐ Dispose after 30 days
☐ Return samples
☐ Will call with instructions

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of containers	TPH-Diesel	TPH-Gasoline	BTEX by 8021B	VOCs by 8260	SVOCs by 8270	HFS	PCB's by						Notes
TvlCB1	01	1/9/08	10:15 Am	Sediment	1							X						normal Turnaro
TvlCB2	02		10:45		1							X						
TvlCB3	03		10:55		1							X						
TvlCB4	04		11:15		1							X						
TvlVAC1	05		1:15 PM		1							X						

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282
Fax (206) 283-5044

FO COC DO

	SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:		Conrad F. Vernon	VET	1/9/08	2:10 PM
Received by:		Nhan Phan	FEBI	1/9/08	2:10
Relinquished by:					
Received by:			Samples received at 10 °C		

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on January 9, 2008 by Friedman & Bruya, Inc. from the Vernon Environmental, Inc. Rainier Commons Sediment in Catchbasins, F&BI 801076 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID	Vernon Environmental, Inc.
801076-01	TUL CB1
801076-02	TUL CB2
801076-03	TUL CB3
801076-04	TUL CB4
801076-05	TUL VAC1

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 01/23/08
Date Received: 01/09/08
Project: Rainier Commons Sediment in Catchbasins, F&BI 801076
Date Extracted: 01/16/08
Date Analyzed: 01/18/08

RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PCBs
USING EPA METHOD 8082

Results Reported on a Dry Weight Basis
Results Reported as mg/kg (ppm)

Sample ID Laboratory ID	Total PCBs	Surrogate (% Recovery) (Limit 50-150)
TUL CB1 d 801076-01	5.3	140
TUL CB2 801076-02	1.0	139
TUL CB3 d 801076-03	34	50
TUL CB4 d 801076-04	8.6	124
TUL VAC1 d 801076-05	37	ip
Method Blank	<0.1	71

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 01/23/08
Date Received: 01/09/08
Project: Rainier Commons Sediment in Catchbasins, F&BI 801076

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR POLYCHLORINATED BIPHENYLS AS TOTAL PCBs BY EPA METHOD 8082

Laboratory Code: 801094-02 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	RPD (Limit 20)
Total PCBs	mg/kg (ppm)	<0.1	<0.1	nm

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	% Recovery LCS	% Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Total PCBs	mg/kg (ppm)	1.7	85	90	73-135	6

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

A1 – More than one compound of similar molecule structure was identified with equal probablility.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for this range fell outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte indicated may be due to carryover from previous sample injections.

d - The sample was diluted. Detection limits may be raised due to dilution.

ds - The sample was diluted. Detection limits are raised due to dilution and surrogate recoveries may not be meaningful.

dv - Insufficient sample was available to achieve normal reporting limits and limits are raised accordingly.

fb - The analyte indicated was found in the method blank. The result should be considered an estimate.

fc – The compound is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. The variability is attributed to sample inhomogeneity.

ht - The sample was extracted outside of holding time. Results should be considered estimates.

ip - Recovery fell outside of normal control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.

j – The result is below normal reporting limits. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The analyte result in the laboratory control sample is out of control limits. The reported concentration should be considered an estimate.

jr - The rpd result in laboratory control sample associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the compound indicated is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc – The sample was received in a container not approved by the method. The value reported should be considered an estimate.

pr – The sample was received with incorrect preservation. The value reported should be considered an estimate.

ve - The value reported exceeded the calibration range established for the analyte. The reported concentration should be considered an estimate.

vo - The value reported fell outside the control limits established for this analyte.

x - The pattern of peaks present is not indicative of diesel.

y - The pattern of peaks present is not indicative of motor oil.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Charlene Morrow, M.S.
Yelena Aravkina, M.S.
Bradley T. Benson, B.S.
Kurt Johnson, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
TEL: (206) 285-8282
FAX: (206) 283-5044
e-mail: fbi@isomedia.com

January 23, 2008

Conrad Vernon, Project Manager
Vernon Environmental, Inc.
3524 255th Ln SE #3
Issaquah, WA 98027

Dear Mr. Vernon:

Included are the results from the testing of material submitted on January 10, 2008 from the Rainier Commons, F&BI 801099 project. There are 4 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl
Project Manager

Enclosures
NAA0123R.DOC

CHAIN OF CUSTODY RECORD

Mail Data/Invoices to:

Project Number: _____
Purchase Order Number: _____
Subcontract Laboratory: _____
LPM/TC: _____

Shipment Number: _____
Shipment Method: _____
Fax data to: _____
Fax Number: _____
e-mail: _____

Sample ID	Collect Date	Matrix	QC Required	Requested Parameters: PCB TOTAL												No. of Containers	Comments
Rainier Commons	1/10/08	sewer WTR		X												3	(3 1 Liter ambers)

Additional Comments/Instructions:

Total Number of Containers: 0

Requested TAT: _____

Please return signed original CoC with data package.

Data Package Due: _____

RELINQUISHED BY Signature	Dana Hein	Date 1/10/08	RECEIVED BY Signature
Printed Name	DANA HEIN	Time 1545	Printed Name Conrad Vernon
Organization	King County Industrial Waste		Organization VEC

		Date 1/10/08	
		Time	

801099

SAMPLE CHAIN OF CUSTODY

ME 01-10-08

A04

Page # _____ of _____

Send Report To: conrad.vernon@amec.com
Company: VET
Address: 3525 255th Ln SE, #3
City, State, ZIP: Iss., WA 98029
Phone #: 206.686.2469 Fax #: SAME

SAMPLERS (signature)

PROJECT NAME/NO. | PO #

REMARKS

TURNAROUND TIME
- ☐ Standard (2 Weeks)
- ☐ RUSH
- Rush charges authorized by:

SAMPLE DISPOSAL
- ☐ Dispose after 30 days
- ☐ Return samples
- ☐ Will call with instructions

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of containers	TPH-Diesel	TPH-Gasoline	BTEX by 8021B	VOCs by 8260	SVOCs by 8270	HFS	PCB 8082						Notes
E Manhole 1	1	1/10/08	9-14:30	Water	3							X						Total PCB

ANALYSES REQUESTED

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282
Fax (206) 283-5044

FOR ☐ OC ☐ DOC ☐

	SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:		Conrad F. Vernon	VET	1/10/08	16:35
Received by:		Nhan Phan	FEBI	01/10/08	16:35
Relinquished by:					
Received by:		Samples received at 3 °C			

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on January 10, 2008 by Friedman & Bruya, Inc. from the Vernon Environmental, Inc. Rainier Commons, F&BI 801099 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID	Vernon Environmental, Inc.
801099-01	Man Hole 1

The 8082 relative percent difference of the laboratory control sample and duplicate exceeded the acceptance criteria. The sample was non detect, therefore the data is acceptable.

All other quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 01/23/08
Date Received: 01/10/08
Project: Rainier Commons, F&BI 801099
Date Extracted: 01/15/08
Date Analyzed: 01/17/08

RESULTS FROM THE ANALYSIS OF WATER SAMPLES FOR TOTAL PCBs USING EPA METHOD 8082

Results Reported as ug/L (ppb)

Sample ID Laboratory ID	Total PCBs	Surrogate (% Recovery) (Limit 50-150)
Man Hole 1 801099-01	<0.1	93
Method Blank	<0.1	51

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 01/23/08
Date Received: 01/10/08
Project: Rainier Commons, F&BI 801099

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR TOTAL PCBS AS AROCLOR 1016/1260 BY EPA METHOD 8082

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	% Recovery LCS	% Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Total PCBs	ug/L (ppb)	5	72	89	52-135	21 vo

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

A1 – More than one compound of similar molecule structure was identified with equal probablility.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for this range fell outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte indicated may be due to carryover from previous sample injections.

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hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. The variability is attributed to sample inhomogeneity.

ht - The sample was extracted outside of holding time. Results should be considered estimates.

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jr - The rpd result in laboratory control sample associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the compound indicated is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc – The sample was received in a container not approved by the method. The value reported should be considered an estimate.

pr – The sample was received with incorrect preservation. The value reported should be considered an estimate.

ve - The value reported exceeded the calibration range established for the analyte. The reported concentration should be considered an estimate.

vo - The value reported fell outside the control limits established for this analyte.

x - The pattern of peaks present is not indicative of diesel.

y - The pattern of peaks present is not indicative of motor oil.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Charlene Morrow, M.S.
Yelena Aravkina, M.S.
Bradley T. Benson, B.S.
Kurt Johnson, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
TEL: (206) 285-8282
FAX: (206) 283-5044
e-mail: fbi@isomedia.com

March 26, 2008

Conrad Vernon, Project Manager
Vernon Environmental, Inc.
3524 255th Ln SE #3
Issaquah, WA 98027

Dear Mr. Vernon:

Included are the results from the testing of material submitted on March 13, 2008 from the 42-3368, F&BI 803134 project. There are 4 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl
Project Manager

Enclosures
NAA0326R.DOC

~~803147~~ 803134 ME 03-13-08 A05 VEI

206.686.2469 Conrad.Vernon@vernonenvironmental.com

CHAIN OF CUSTODY RECORD

Project Number: 42-3368
Purchase Order Number:
Subcontract Laboratory: FB
LPM/TC:

Shipment Number:
Shipment Method:
Fax data to:
Fax Number:
e-mail:

Mail Data/Invoices to:
King County WPCD Environmental Laboratory
Subcontract Analysis Coordinator
322 W. Ewing Street, LAB-NR-0100
Seattle, WA 98119

lab ID	Sample ID	Collect Date	Matrix	QC Required	Requested Parameters: PCBLL TOTAL	No. of Containers	Comments
-01	45098-1	3.13.08	~~W~~Storm-water	ND	X		started tsco @ 10:00, Y15
-02	Duplicate 45098-2	3.13.08	Stormwater	ND	X		4 hour, 17 samples 75ml, Y15

Additional Comments/Instructions:

Total Number of Containers: 0

Please return signed original CoC with data package.

Requested TAT:
Data Package Due:

RELINQUISHED BY		Date	RECEIVED BY		Date
Signature	Tammy Himes	3/13/08	Signature		3/13/08
Printed Name	Tammy Himes	Time 14:35	Printed Name	Conrad Vernon	Time 4:30
Organization	King County Industrial Waste		Organization	VEI	

Dave FBI 3/13-08 @ 3PM

Samples received at 4 °C

County IR Environmental Corporation 322 W Ewing St MS-L Seattle 98119 (206) 68 0 BANK

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on March 13, 2008 by Friedman & Bruya, Inc. from the Vernon Environmental, Inc. 42-3368, F&BI 803134 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID	Vernon Environmental, Inc.
803134-01	45098-1
803134-02	Duplicate 45098-2

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 03/26/08
Date Received: 03/13/08
Project: 42-3368, F&BI 803134
Date Extracted: 03/19/08
Date Analyzed: 03/20/08

RESULTS FROM THE ANALYSIS OF WATER SAMPLES FOR TOTAL PCBs USING EPA METHOD 8082

Results Reported as ug/L (ppb)

Sample ID Laboratory ID	Total PCBs	Surrogate (% Recovery) (Limit 50-150)
45098-1 803134-01	<0.1	86
Duplicate 45098-2 803134-02	<0.1	103
Method Blank	<0.1	68

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 03/26/08
Date Received: 03/13/08
Project: 42-3368, F&BI 803134

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR POLYCHLORINATED BIPHENYLS AS TOTAL PCBs BY EPA METHOD 8082

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	% Recovery LCS	% Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Total PCBs	ug/L (ppb)	4.0	90	99	73-135	10

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

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vo - The value reported fell outside the control limits established for this analyte.

x - The pattern of peaks present is not indicative of diesel.

y - The pattern of peaks present is not indicative of motor oil.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Charlene Morrow, M.S.
Yelena Aravkina, M.S.
Bradley T. Benson, B.S.
Kurt Johnson, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
TEL: (206) 285-8282
FAX: (206) 283-5044
e-mail: fbi@isomedia.com

June 20, 2008

Conrad Vernon, Project Manager
Vernon Environmental, Inc.
3524 255th Ln SE No. 3
Issaquah, WA 98029

Dear Mr. Vernon:

Included are the results from the testing of material submitted on June 4, 2008 from the Rainier Commons, F&BI 806054 project. There are 6 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl
Project Manager

Enclosures
NAA0620R.DOC

METRO ENVIRONMENTAL LABORATORY 322 W. Ewing Street Seattle, WA 98119-1507 (206) 684-2300 Fax: (206) 684-2395 page 1 of 1 pages

806054

LABORATORY WORK ORDER ME 06-04-08 C04 / V1 / AIC

Organization: Industrial Waste
Address: 130 Nickerson St. #200
Seattle, WA 98109
Phone: 263-3000 Fax: 263-3001
Project Name: Rainier Commons
Project Number:

Client Sample ID	Date Sampled	Time	Matrix	Metro LIMS No.	PCB (2 Liters)	TOC (2 VOA vials)	TSS (1 Liter)	Lab ID	No. of Containers
A00709	6/3/08	0815	waste water		X	X	X	01	5

Send results to
Conrad.Vernon@VernonEnvironmental.com
3524 255th Ln SE #3
Issaquah, WA 98029

COC Handling Required?: (Yes) / No
Samplers: Dana Heinz
206-263-3005
Shipment method: delivered by Dana Heinz

Observations, Comments, Special Instructions
Composit sample 1/15 min. 08:15 am → 12:30. DLH
VOA vials preserved w/ phosphoric acid upon receipt @ lab. by Login person. DLH

Samples received at ___ °C

RELINQUISHED BY	Date	RECEIVED BY	Date
Signature: Dana Heinz	6/3/08	Signature:	6/3/08
Printed Name: Dana Heinz	Time: 1425	Printed Name: Jason Kinnard	Time: 14:25
Organization: Industrial Waste		Organization: KCEL	
RELINQUISHED BY	Date	RECEIVED BY Khan Phan	Date
Signature: Conrad Vernon	6/4/08	Signature:	6/4/08
Printed Name: Conrad E. Vernon	Time: 1540	Printed Name:	Time: 15:40
Organization: VEI		Organization: Friedman & Bruya	

Total Number of Containers: 5 Requested TAT:
Additional Comments:
Samples held @ King County Laboratory under Chain-of-custody per Conrad Vernon AMEC Earth Environmental #206/686-2469

rev. 10/93 White MET Pink

RCLLC 0004036

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on June 4, 2008 by Friedman & Bruya, Inc. from the Vernon Environmental, Inc. Rainier Commons, F&BI 806054 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID	Vernon Environmental, Inc.
806054-01	A00709

Sample A00709 was sent to Aquatic Research for total organic carbon analysis. Review of the enclosed report indicates that all quality assurance was acceptable.

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 06/20/08
Date Received: 06/04/08
Project: Rainier Commons, F&BI 806054
Date Analyzed: 06/06/08

RESULTS FROM THE ANALYSIS OF WATER SAMPLES FOR TOTAL SUSPENDED SOLIDS BY METHOD 2540D

Results Reported as mg/L (ppm)

Sample ID Laboratory ID	Total Suspended Solids
A00709 806054-01	45.9
Method Blank	<10

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 06/20/08
Date Received: 06/04/08
Project: Rainier Commons, F&BI 806054
Date Extracted: 06/05/08
Date Analyzed: 06/06/08

RESULTS FROM THE ANALYSIS OF WATER SAMPLES FOR PCBs AS AROCLORS USING EPA METHOD 8082

Results Reported as ug/L (ppb)

Sample ID Laboratory ID	Aroclor 1221	1232	1016	1242	1248	1254	1260	1262	Surrogate (% Rec.) (Limit 61-132)
A00709 806054-01	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	97
Method Blank	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	76

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 06/20/08
Date Received: 06/04/08
Project: Rainier Commons, F&BI 806054

QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF WATER SAMPLES FOR TOTAL SUSPENDED SOLIDS BY METHOD 2540D

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
TSS	mg/L	50	103	89	67-128	15

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 06/20/08
Date Received: 06/04/08
Project: Rainier Commons, F&BI 806054

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR POLYCHLORINATED BIPHENYLS AS AROCLOR 1016/1260 BY EPA METHOD 8082

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	% Recovery LCS	% Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Aroclor 1016	ug/L (ppb)	2.0	88	80	52-135	10
Aroclor 1260	ug/L (ppb)	2.0	86	83	60-128	4

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

A1 – More than one compound of similar molecule structure was identified with equal probablility.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for this range fell outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte indicated may be due to carryover from previous sample injections.

d - The sample was diluted. Detection limits may be raised due to dilution.

ds - The sample was diluted. Detection limits are raised due to dilution and surrogate recoveries may not be meaningful.

dv - Insufficient sample was available to achieve normal reporting limits and limits are raised accordingly.

fb - The analyte indicated was found in the method blank. The result should be considered an estimate.

fc – The compound is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. The variability is attributed to sample inhomogeneity.

ht - The sample was extracted outside of holding time. Results should be considered estimates.

ip - Recovery fell outside of normal control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.

j – The result is below normal reporting limits. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The analyte result in the laboratory control sample is out of control limits. The reported concentration should be considered an estimate.

jr - The rpd result in laboratory control sample associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the compound indicated is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc – The sample was received in a container not approved by the method. The value reported should be considered an estimate.

pr – The sample was received with incorrect preservation. The value reported should be considered an estimate.

ve - The value reported exceeded the calibration range established for the analyte. The reported concentration should be considered an estimate.

vo - The value reported fell outside the control limits established for this analyte.

x - The pattern of peaks present is not indicative of diesel.

y - The pattern of peaks present is not indicative of motor oil.

AQUATIC RESEARCH INCORPORATED

LABORATORY & CONSULTING SERVICES

3927 AURORA AVENUE NORTH, SEATTLE, WA 98103

PHONE: (206) 632-2715 FAX: (206) 632-2417

CASE FILE NUMBER:	FBI002-62	PAGE 1	
REPORT DATE:	06/18/08		
DATE SAMPLED:	06/03/08	DATE RECEIVED:	06/06/08

FINAL REPORT, LABORATORY ANALYSIS OF SELECTED PARAMETERS ON WATER SAMPLES FROM FRIEDMAN & BRUYA, INC. / PROJECT NO. 806054

CASE NARRATIVE

One water sample was received by the laboratory in good condition. Analysis was performed according to the chain of custody received with the sample. No difficulties were encountered in the preparation or analysis of this sample. Sample data follows while QA/QC data is contained on the following page.

SAMPLE DATA

SAMPLE ID	TOC (mg/l)
A00709	18.4

AQUATIC RESEARCH INCORPORATED

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CASE FILE NUMBER:	**FBI002-62**	**PAGE 2**	
REPORT DATE:	**06/18/08**		
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QA/QC DATA

QC PARAMETER	TOC (mg/l)
METHOD	SM5310B
DATE ANALYZED	06/11/08
DETECTION LIMIT	0.250
DUPLICATE	
SAMPLE ID	BATCH
ORIGINAL	2.51
DUPLICATE	2.60
RPD	3.52%
SPIKE SAMPLE	
SAMPLE ID	BATCH
ORIGINAL	2.51
SPIKED SAMPLE	7.23
SPIKE ADDED	4.50
% RECOVERY	104.82%
QC CHECK	
FOUND	4.13
TRUE	4.00
% RECOVERY	103.25%
BLANK	<0.250

RPD = RELATIVE PERCENT DIFFERENCE.
NA = NOT APPLICABLE OR NOT AVAILABLE.
NC = NOT CALCULABLE DUE TO ONE OR MORE VALUES BEING BELOW THE DETECTION LIMIT.
OR = RECOVERY NOT CALCULABLE DUE TO SPIKE SAMPLE OUT OF RANGE OR SPIKE TO LOW RELATIVE TOO SAMPLE CONCENTRATION.

SUBMITTED BY:

Steven Lazoff
Laboratory Director

FBI 002.62

SUBCONTRACT SAMPLE CHAIN OF CUSTODY

Page # 1 of 1

Send Report To Michael Erdahl
Company Friedman and Bruya, Inc.
Address 3012 16th Ave W
City, State, ZIP Seattle, WA 98119
Phone # (206) 285-8282 Fax # (206) 283-5044

SUBCONTRACTER

PROJECT NAME/NO.	PO #
806054	H-1430

REMARKS

Please Email Results
merdahl@friedmanandbruya.com

TURNAROUND TIME
☒ Standard (2 Weeks)
☐ RUSH
Rush charges authorized by:

SAMPLE DISPOSAL
☐ Dispose after 30 days
☐ Return samples
☐ Will call with instructions

Sample ID	Lab ID	Date Sampled	Time Sampled	Matrix	# of jars	ANALYSES REQUESTED: Oil and Grease	EPH	VPH	Nitrate	Sulfate	Alkalinity	TOC				Notes
A00709		6/3/08		W	1							X				

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282
Fax (206) 283-5044

	SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:		Michael Erdahl	Friedman & Bruya	6/6/08	17:35
Received by:		S. Nelson	FBI	6/6/08	1400
Relinquished by:					
Received by:					

COC/AS6.